

Solving Quadratic Equations (G)

Name: _____

Date: _____

Solve each equation for x.

1. $8x^2 - 2x - 15 = 0$

11. $-2x^2 - 3x + 27 = 0$

2. $-3x^2 + 28x - 32 = 0$

12. $-7x^2 - 43x + 42 = 0$

3. $6x^2 - 17x - 14 = 0$

13. $x^2 + 7x + 6 = 0$

4. $-7x^2 - 33x + 54 = 0$

14. $4x^2 - 17x + 4 = 0$

5. $-6x^2 - 29x - 35 = 0$

15. $7x^2 - 2x - 9 = 0$

6. $2x^2 - 15x + 7 = 0$

16. $4x^2 - 11x - 3 = 0$

7. $x^2 + 10x + 21 = 0$

17. $-6x^2 + 41x + 56 = 0$

8. $-2x^2 - 15x - 25 = 0$

18. $7x^2 + 34x - 48 = 0$

9. $9x^2 - x - 8 = 0$

19. $4x^2 + 9x + 5 = 0$

10. $-5x^2 - 42x - 49 = 0$

20. $-7x^2 - 55x + 72 = 0$

Solving Quadratic Equations (G) Answers

Name: _____

Date: _____

Solve each equation for x.

- $8x^2 - 2x - 15 = 0$
 $(4x + 5)(2x - 3) = 0$
 $x = -1\frac{1}{4}, 1\frac{1}{2}$
- $-3x^2 + 28x - 32 = 0$
 $-(x - 8)(3x - 4) = 0$
 $x = 8, 1\frac{1}{3}$
- $6x^2 - 17x - 14 = 0$
 $(2x - 7)(3x + 2) = 0$
 $x = 3\frac{1}{2}, -\frac{2}{3}$
- $-7x^2 - 33x + 54 = 0$
 $-(7x - 9)(x + 6) = 0$
 $x = 1\frac{2}{7}, -6$
- $-6x^2 - 29x - 35 = 0$
 $-(3x + 7)(2x + 5) = 0$
 $x = -2\frac{1}{3}, -2\frac{1}{2}$
- $2x^2 - 15x + 7 = 0$
 $(x - 7)(2x - 1) = 0$
 $x = 7, \frac{1}{2}$
- $x^2 + 10x + 21 = 0$
 $(x + 7)(x + 3) = 0$
 $x = -7, -3$
- $-2x^2 - 15x - 25 = 0$
 $-(x + 5)(2x + 5) = 0$
 $x = -5, -2\frac{1}{2}$
- $9x^2 - x - 8 = 0$
 $(x - 1)(9x + 8) = 0$
 $x = 1, -\frac{8}{9}$
- $-5x^2 - 42x - 49 = 0$
 $-(x + 7)(5x + 7) = 0$
 $x = -7, -1\frac{2}{5}$
- $-2x^2 - 3x + 27 = 0$
 $-(x - 3)(2x + 9) = 0$
 $x = 3, -4\frac{1}{2}$
- $-7x^2 - 43x + 42 = 0$
 $-(7x - 6)(x + 7) = 0$
 $x = \frac{6}{7}, -7$
- $x^2 + 7x + 6 = 0$
 $(x + 1)(x + 6) = 0$
 $x = -1, -6$
- $4x^2 - 17x + 4 = 0$
 $(4x - 1)(x - 4) = 0$
 $x = \frac{1}{4}, 4$
- $7x^2 - 2x - 9 = 0$
 $(7x - 9)(x + 1) = 0$
 $x = 1\frac{2}{7}, -1$
- $4x^2 - 11x - 3 = 0$
 $(x - 3)(4x + 1) = 0$
 $x = 3, -\frac{1}{4}$
- $-6x^2 + 41x + 56 = 0$
 $-(x - 8)(6x + 7) = 0$
 $x = 8, -1\frac{1}{6}$
- $7x^2 + 34x - 48 = 0$
 $(x + 6)(7x - 8) = 0$
 $x = -6, 1\frac{1}{7}$
- $4x^2 + 9x + 5 = 0$
 $(x + 1)(4x + 5) = 0$
 $x = -1, -1\frac{1}{4}$
- $-7x^2 - 55x + 72 = 0$
 $-(x + 9)(7x - 8) = 0$
 $x = -9, 1\frac{1}{7}$